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United States Patent [19] Falconer

[54]	HAND B	AND BOARD		
[76]	lavestor;	Glen Falconer, 325 S. Washington #148, Kept, Wash. 98032		

[]	Term:	14 Years	

,,	. 4,	
[22]	Filed:	Jan. 3, 1998
[51]	LOC (6)	a

[51]	LOC (6) CL 21-06
[52]	U.S. Cl D21/807; D21/806
[58]	Field of Search D21/801-810;
	441M1_64 57 58 56

References Cited U.S. PATENT DOCUMENTS

D. 256,604	8/1980	Accolus	D21/236
D. 261,023	9/1981	Pesanti	D21/239
D. 262,477	12/1961	Lewis	
D. 262,617	1/1962	Griffith	D21/238
D. 263,860		Cale	
D. 286,904		Kim	
D. 300,341	3/1989	Bross	D21/239
D. 318,894		Harting	
D. 321,547		Albreck	
D. 329,433	9/1992	logen h	D21/237
3,529,313		Girdes	

3,742,539	2/1973	Otradovski et al
4,233,925	11/1980	Proctor 440/101
4,493,663	1/1945	Richmond 440/101
4,509,744	4/1985	Beasley 272/116
4,669,991	6/1987	Southworth
4,913,418	4/1990	Schlaster et al 272/11
3,147,233	9/1992	Hanneth

[45] Date of Patent: .. Jul. 20, 1999

Primary Examiner-Kay H. Chie

57)	CLAIM
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DESCRIPTION

FIG. 1 is a side elevational view of my hand board an unassembled condition.

FIG. 2 is a up plan view of FIG. 1.

FIG. 3 is a top plan view of the safety jessa* with a and a knot on the cod.

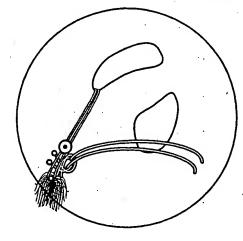
FIG. 4 is a top plan view of the wrist cord with a sead cod.

FIG. 4 is a top plan view of the wrist cord with a sead cod.

FIG. 5 is a seed that wrist cords and safety jessa*.

FIG. 6 is a side therational view of FIG. 3; and, FIG. 7 is a bottom plan view of FIG. 3.

1 Claim, 2 Drawing Shorts



Coo (

United States Patent [19] Falconer

[54]	HAND B	OARD
[76]	lovestor:	Gles Falconer, 325 S. Washington

[10]	TOARSTOL:	#148, Kent, Wash. 98032
(**)	Term:	14 Years

(44)	white men asterious	
[22]	Filed: Jan. 5, 1998	
	LOC (6) CL	
	U.S. CL	

[58] Field of Search ... D21/801-810; 441/56, 57, 58, 61-64

U.S. PATENT DOCUMENTS

U. 230,004	et Then	ATTAM	UMA
D. 261,023	9/1981	Pesset	021/239
D. 262,477	12/1981	Levis	D21/201
		Griffith	
		Cele	
		Xin	
		Breez	
		Harling	
D. 321,547	11/1991	Albrecht	D21/23
D. 329,633	9/1992	Rogers, Jr.	D21/23
3,529,313	9/1970	Girdes	- 41/5

[11] Patent Number: Des. 412,352 [45] Date of Patent: .. Jul. 27, 1999

3,742,530	7/1973	Okasiewski et al 441/50
		Proder 440/10/
4,493,663	1/1985	Richmood 440/101
4,509,744	4/1985	Beesley
4,669,991	6/1987	Southworth
4913,418		Schlester et al 272/1
5,147,233	9/1992	Hannels 441/50

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and des	CT.	ed.	_						

DESCRIPTION

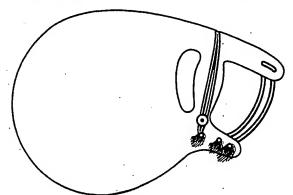
FIG. 1 is a side elevational view of my hand board abowing an unassembled condition. FIG. 2 is a top plan view of FIG. 1. FIG. 3 is a top plan view of the safety jease' with alider ball and a knot on the cod. FIG. 4 is a top plan view of the wrist cord with a knot on each and.

each and.

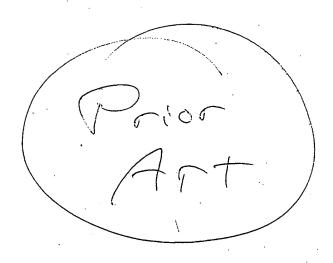
Fig. 5 is top plan view of my band board in an a condition with wrist cords and safety jenses.

Fig. 6 is a side elevational view of Fig. 3; and, Fig. 7 is a bottom plan view of Fig. 5.

1 Claim, 2 Drawing Shosts



Coastin' in the Shade



United States Patent [19] Falconer

[54] HAND BOARD [76] Inventor: Glen Falconer, 325 S. Wast #148, Kent, Wash. 98032 14 Years

[21] Appl. No.: 29/061,545 [22] Filed: Jan. 5, 1998

[51] LOC (6) Cl. [52] U.S. Cl. [58] Field of Search

[56] References Cited U.S. PATENT DOCUMENTS

D. 256,604	6/1980	Arroise	D21/
D. 261,023	9/1981	Peserak	021/
D. 262,477	12/1981	Levis	DZL
D. 262.817	1/1982	Griffet	D21/2
D. 263,860	4/1942	Cole	D21/2
D. 286,904	11/1986	Xim	DZL
D. 300,341	3/1989	Bron	D21/
D. 318,894	8/1991	Harling	D21/2
D. 321,547	11/1991	Albrecht	D21/2
D. 329,633	9/1992	Rogers, Ja	D21/
3,579,313		Givdes	

[11] Patent Number: Des. 412,353 [45] Date of Patent: .. Jul. 27, 1999

1742.539	10073	Observati et al 441/5
كتوروي	11/1980	Proctor 441/10
4473,663	1/1985	Richmond
4.509,744	4/1985	Bessley 272/11
4,669,991		Southworth
4913,418		Schleeter et al
1147.233		Hannels

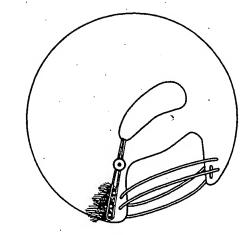
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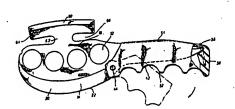
y H. Chin

DESCRIPTION

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1 Claim, 2 Drawing Sheets





US005829082A

5,829,082

Nov. 3, 1998

United States Patent [19] Moreira

U.S. PATENT DOCUMENTS

8),499 10/1848 Holtzscheiter . D. 270,455 9/1913 Callim . 640,903 11/1890 Steinscht . 90,786 1/1911 Hampbrin . 1,174,192 3/1916 Stetine et al . 1,183,250 3/1916 Stetiye .

[54] MULTI-PUNCTIONAL HAND TOOL

[76] Investor: Antenio Moretra, 17 Gail Rd., Merrimack, N.H. 03054 [21] Appl. No.: 819,429

(22) Filed: Mar. 17, 1997 [51] Int. CL* B25G I/00 [52] U.S. Cl. 7/167; 81/489; 81/124.4 [58] Field of Search 7/167, 158, 170; 81/489, 487, 329, 337, 339, 342, 124.4; 30/544

[56] References Cited

U.S. PATENT DOCUMENTS

72039 11/1893 Germany

202,105	4/1878	Gladwie 7/167
1,097,043	5/1914	Note: 81/124.4
1,980,087		Rast 7/167
2,737,704		Cisects 30/342
4,062,118		Modefferi
4.512.381		Alvera 30/342
4,700,420	10/1987	Belsager 7/167
1.058.465	10/1991	Westeck
5,615,746		Cau 30/339
-	BEICH	BATTANT BOOKS (CARE

mr-Daid Schemel Assistant Examinar—Joni B. Danganas
Assorary, Agont, or Firm—Scott B. Garrison, La
Garrison PLLC

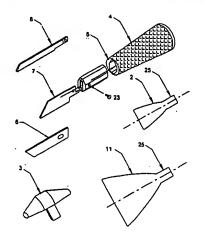
[57] ABSTRACT

[11] Patent Number:

[45] Date of Patent:

A multi-functional hand tool is provided having a handle portion to be held by a user. The handle portion is made to receive a plwraisy of different types of tool statchments. To secure these tool attachments, a plurality of alons are machined into an anachment portion of the hand tool. The at portion is simply a rigid element which can attachment portion is simply a rigid cleanest which can neceive, retain and rigidly accure one of the tool attachments within one of the sites. The slots are sized differently to accommodate various marketed tool attachments, such as jis aw blades, reciprocating saw blades, utility ktwise, et. al. Further, puty knives, and striking (implements can be made basing a realisable tase for engaging one of the slots. The devices is meant to be used as as all purpose tawing, cutting, acraping, appreading and striking implement which would replace a great deal of expensive tools commonly needed by apartment dwellars, students, and "do-8-yoursellers".

5 Claims, 5 Drawing Sheets



.... 61/124.4

United States Patent [19] Magan

[M] HANDTOOL [76] Inventor: Arthur S. C. Magan, 15, Heytesbury Lane, Dublin 4, Ireland

[**] Term: 14 Years

[21] Appl. No.: 461,466

Jan. 27, 1943 3. Cl. D8/105; D8/52 16 of Search D8/51, 52, 54-60, D8/23, 26, 14, 104, 106, 103, 99; 7/113, 119, 129, 132, 142, 163, 164, 166, 167

[56] References Cited

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

[11] Patent Number: Des. 286,501 [45] Date of Patent: .. Nov. 4, 1986

1411214 10/1975 United Kinedom .

OTHER PUBLICATIONS

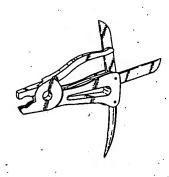
Radio Shack Corp. Mail Order Brochure, 3/21/1955, 3 Blade Gripper/Cutter, No. R-4275.

Primary Examiner—Susan I. Lucas
Assistant Examiner—C. E. Heftin
Attorney, Agent, or Firm—Young & Ti

[57] CLAIM

DESCRIPTION

FIG. 1 is a perspective view of the handsool sho my new design with the various components show FIG. 1 is a perspective view of the handrool showing my new design with the various components shown in the open position; FIG. 2 is a side view from the right hand side of the handrool showing my new design with the various com-ponents shown in the closed position. FIG. 3 is a side view from the left hand side thereof; FIG. 4 is a top view thereof; FIG. 4 is a frow view thereof; and FIG. 7 is a rear view of the handrool of my new design.



TOTA BOTH S TO THE TANK THE STEEL STRONG THE STRONG THE

United States Patent [19]

Anderson et al.

[54] TROWEL AND SCREWDRIVER COMBINATION HANDTOOL

Cassutti, 8 N. Creck Rd., both of Northport, N.Y. 11768

[21] Appl. No.: 09/434,894

[22] Filed: Nov. 9, 1999

eleted U.S. Application Date

Continuation of application No. 09/134,684, Aug. 14, 1998, and a continuation-in-past of application No. 09/237,784, Jun. 26, 1999, which is a continuation of application No. 006/97/027, Nos. 26, 1997, Par. No. 5, 2971,164, which is a continuation of application No. 08/451,398, May 26, 1995, pp. 1995, No. 26, 1995, May 26, 1995, pp. 1

References Cited U.S. PATENT DOCUMENTS

[11] Patent Number: Oct. 17, 2000 [45] Date of Patent:

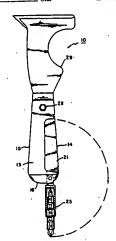
6,131,222

Primery Examiner—David A. Scherbel Assistant Examiner—Let Wilson Anomey, Agent, or Firm—Lacketbach Aronson & Greenspan, P.C. Jackenhach Siczel Marculic

ABSTRACT

[37] A combination trowel and screed-river is provided wherein be trowel handle bousts and removebly retains a tool bit drive assembly which bousts a phrajity of tool bit or screed rivers. The same provide the toll bit drive assembly bounding away from the bandle to a position canzenting in the proximate direction from the handle. The same them selects the desired tool bit drive for insertion at the proximate cost of the searchly and with the proximate send of the search and the server into a recessably position in a wellboard construction. The same then returns or reprivate that sool bit drive assembly into the bandle, and then with the trowel or parties or appraise or appraise to wellboard placetic or finishing material over the recessed screw bead to fluids the with.

15 Claims, 3 Drawing Shee

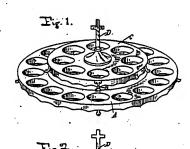


DESIGN.

E. J. HOWE.

No. 23,901.

Patented Dec. 25, 1894:



Witnesses.

Invertor
Edwin J. House,

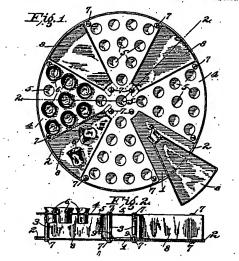
W. D. OREE & H. F. DAVIS.

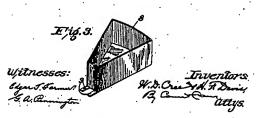
COMMUNICS SERVICE.

APPLICATION FILED SOT. 7, 1916.

982,351.

Patented Jan 24, 1911.

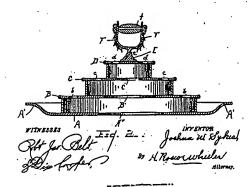




DESIGN.

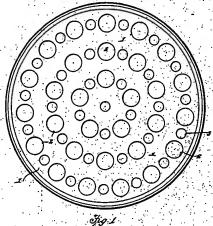
J. W. SYKES. COMMUNION SERVICE TRAY.

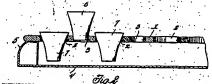
No. 28,061. Patented Sept. 22, 1896.



A. Ę. HUSTĘD. Cornunior tray. Application tray apl. 1, 10

1,199,987. Patentod Oct 3,1916.

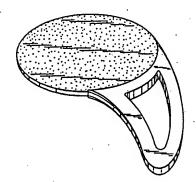




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aly to E. A.

[it] Des. 255,137 United States Patent [19] [45] .. May 27, 1980 [34] TABLE TENNES PADDLE POREION PATENT DOCUMENTS



THIEF DEFICE T MANNE [14]	in recent names. Observed
1cPoyle	[45] Date of Patent: Ang. 18, 1992
4) PARRIE BALL BACOLIET	

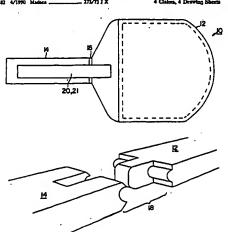
[ניר]	loventor	Singhen F. McPoyle, Lake Worth, Fla.
[13]	Anignee	Party Peog Inc., West Palm Beach, Fis.
[21]	Appl. No.:	830,370
[22]	Filed:	Jan. 31, 1992
(51) [52]	Pr C	AGIB 99/04 273/74; 273/73 J;

[51] [52]	nr g	A61B 99/04 273/76; 273/73 J; 273/30
[38]	Fleid of S-urch	273/73 R, 73 Q, 73 J,

U.S. PATENT DOCUMENTS				
1,914,154 1/1	935 Marks	273/76		
4.052.060 10/1	977 Belleson	373/73 G X		
4.333.350 10/1	9E2 Krounich	273/76 X		
		273/73 J X		
4744.119 3/1	911 Jeanna	273/73 J X		
		273/73 J X		

FOREIGN PATENT DOCUMENTS

0333386	9/1922	Ped. Rep. of Octmeny _ 273/73 G
2390000	6/1997	Prence 273/73 J
0011394	7/1935	United Kingdom 273/73 G



United States Patent [19]	(11) 4,324,400		
Tse	[45] Apr. 13, 1982		
TABLE TENNIS BAT BLADE	FOREIGN PATENT DOCUMENTS 34441M 10/1976 Fed. Rep. of Germany		
[38] Pield of Search 273/73 F, 76, D1G. 7, 273/23, 67 R, 67 A, 67 D	Primary Examinar—Richard J. Apley Assormer, Agent, or Pirm—Graybeal & Units		
[36] References Cited	[37] ABSTRACT The blade for a table tennis but includes a layer of light-weight, low modulus of elasticity material positioned centrally with respect to the thickness of the blade and overfaid by a countraining layer of high modulus of elasticity material. The blade also includes a smooth, tagle dutie space bonded to the outer surfaces of the two constraining layers. The constraining layers are composed of stream of streets resistant material wowen transversely to each other to form a this mat.		
A COLOR OF THE PARTY OF THE PAR			



(12) United	States	ratent-
Mizeracki	et al.	

(10) Patent No.:	US	6,234,919 B
(45) Date of Patent:		May 22, 200

	AND MULTIPURPOSE COMBINATION TABLE			
(76)	loventors:	Marion Tom Mizerscki, 39 Bunker Hill La., Russellville, AR (US) 72802; Martin Robert Mizerscki, 3301		

(76)	Marton Tom Mizeracki, 39 Bunker Hill La., Russellville, AR (US) 72802; Martin Robert Mizeracki, 3301 Meadow Wood La., Bedford, TX (US) 76021
	76021

		1445
(.)	Notice:	Subject to any disclaimer, the term of this patent is extended or adjusted under 35

	U.S.C. 154(b) by 0 days.
(21)	Appl. No.: 09/401,255

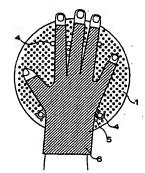
(22)	Filed:	Sep. 23, 1999
	Ist. CL'	
(52)	U.S. CL	47V496- 471415

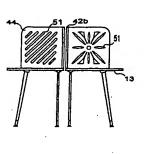
(52)	U.S. CL	473/496; 473.	435; 473/470;
(50)	Plated and Comment		106/170
(30)	473/491, FC	OR 113, 4, 10, 14, 1	309; 473/496, 5: 108/93 ₋ 05.

		62-63, 96; 254
(56)	References Cite	ed .

U.S. PATENT DOCUMENTS				
512,337		1/1894	Stantes	477/

2.911.217 · 11	L/1959 Hirock et al.	
3,318,269 • 5	1/1967 Kies	
4,300,766 * 1	1/1981 Huma	273/108.
4,583,467 * 4	V1986 Tiffeey	100/1
5.074.554 · 12	2/1991 Loomby at	4 273/108
5,372,364 * 12	/1994 Acress -	273/108
5.451.D46 * 5	73995 Batton	473/478
5,704,64D · 1	/1998 Cooper et al	257/12



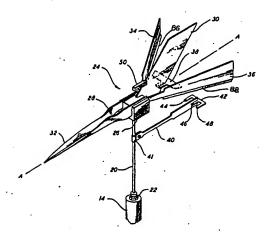


United States Patent [19] Perretts [34] APPARENT WIND INDICATION DEVICE
 [76] Laventon Michael L. Forretta, 4896
 Feyetteville Manilus Rd., Manilus, N.Y. 13104
 [21] Appl. No. 774,523 [22] Filed: Mar. 4, 1977

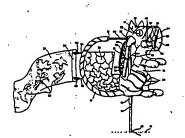
References Cited
U.S. PATENT DOCUMENTS

3,371,529 3/1968 Tillman 3,845,734 11/1974 Demos

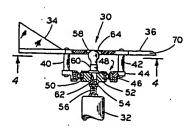
[51] Int Cl. [52] U.S. Cl. [58] Pield of Search __ 4,080,826



United Nuttle	States Patent [19]		Patent Number:	4,656,770
Matrie		[45]	Date of Patent:	Apr. 14, 1987
[54] BIRD B	REPELLING MEANS	F	OREION PATENT D	OCUMENTS
[76] Invento	r. David A. Nuttle, Rts. 2, Youngsville, N.C. 27996	197	1094 3/1975 Fed. Rep. o 1809 9/1979 United King 1844 6/1980 United King	116/32 A
[21] Appl N	ia.: 791,969	Primary I	Commiser-Nicholas P.	Godici
[22] Filed: Oct. 23, 1985		Assistant Essentiar Cormine Code Assorto, Agent, or Firm—Mills & Cons		
[2] RF C.	A01M 29/04	(57)	ABSTRACT	•
[58] Field of	43/2; 446/171; 446/211; 116/22 A; 43/1 Search 43/2, 1; 116/22 A, 23, 116/24, 140, 141; 446/176, 176; 215, 216; 40/440, 455	vices to e accomplis Cut which bright on	ation is a combination of create penic in adected their is part through a bo is in weathervane mounts age stripes and has pred	bird species. This is dy simulating a Tiger of The body includes alony eyes. Streamers
[56]	References Classi	and an int	peniced birds are attact crnal wind driven flute	bod-to the tiger's tail produces a variety of
בט	A PATENT DOCUMENTS	the noises.	Additionally, reflectors	are med on a proped-
1,167,502 1,442,290 2,768,762 2,941,197 3,412,394 1	1/1165 Deveggio	matic acc calls are b	ulate light reflection fro loss or acheduled exployers tylens exploder and bird rendeast ever loud spea- g repelled.	miom from an auto- warning and distress ters for the species of
~141,079 1	417/4 - AUTO- A. C. C. C		24 Carlos, 6 December	P

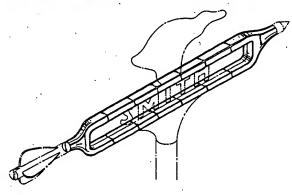


United States Patent [19]	[11] Patent Number: 4,522,069
Birnbaum	[45] Date of Patent: Jun. 11, 1985
34 WINDVANE	4.064.121 1/1978 Bringhorn 150/04.19 4.00470 11/1981 Furtharen 111/244 FOREIGN PATENT DOCUMENTS 2013141 1/1979 United Kingdom 111/244 Printery Examiner—Charles Princhfort Antitan's Examiner—Denis E Corr Attitung, Agent, or Firm—Baster & Atter (57) ABSTRACT
187 Field of Search	A plezigias or similar plastic velocitors that has be- ied peripheral edge or to observable provided with surface markings from which light any imprigra- therons sait from the plezigiase causing limination of the edges or markings, whereby the windvans is effec- tively used at right or mater conditions of diminished visibility to designate wind direction.
3.371,529 1/1968 Tillman 73/188	2 Claims, 5 Drawing Figures



United States Patent [19]

Frontz, II			[45] Date of Patent: **Mar. 10, 1998		
[54]	WEATE	ERVANE SUPPORT	נדט	CLADA	
(76)	[76] Investor: Walter James Frontz, IL 2552 Lackey Old State Rd., Delaware, Ohio 43015		The ornamental design for a weathervane support, as show and described.		servane support, as abows
[**]	Tora:	14 Years		DESCRIPT	ION
(51)	Appl. No.	: 62,311	Ox pres	est laveation;	s seathervess support of
[22]	Filed:	Nov. 13, 1996	FIG. 2 is a side view of the weatherwase support of FIG. 1; FIG. 3 is a top plan view of the weatherwase support of		
D1)	LOC (6)	CL 1044	PIO. 1:		
(32)	U.S. CL.	D19/5>	FIG. 4	is a bottom view of the	weathervane support of
[38] Field of Search D10/59; 73/170.05. 72/170.06. 170.07		FIG. 1; FIG. 5 i		s westborvase support of	
[36]		References Cited			weathervase support of
	U.	S. PATENT DOCUMENTS	PKJ. 1.		
D. 275,085 6/1964 Masso D1979			see the showing is for this part of the claimed desi	strative purposes only and gn.	
		- Antalas Daniel Danie			



United States Patent (19)		· (tij	4,378,670
Check et al.	<u>.</u>	[45]	Apr. 5, 1983

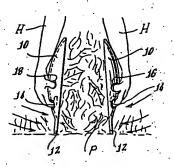
[54]	HAND SO	OOP FOR GRASS AND LEAVES
[76]	laventore:	Mathias M. Check, 34 Bowman Dr., Greenwich, Conn. 06830; Elis L. Goodby, 22 Barrow Dr., East Greenwich, R.L. 02818
mu	Anni Mar	107 798

[21]	Appl. No.: 182,715	
[22]	Filed: Aug. 25, 1900	
[51]	lat. CL ³ A01D 7/00	•
1521	11.5 (3 54/400.01; 54/400.12;	
•	294/50.8; 294/55	
(34)	Field of Search 294/49, 55, 50.5, 50.6,	
,	294/50.8, 50.9, 52; 56/400.01; 400.12	
[56]	References Cited	
- :	ILS PATENT DOCUMENTS	

Ī	U.	U.S. PATENT DOCUMENTS					
	273,303	4/111)	Lindry .	:	25V2	4	
	816.236	1/1906	Kline		294/:	6.8	
•	1,773,371	9/1930	Hayeda -	a 4	25V:		

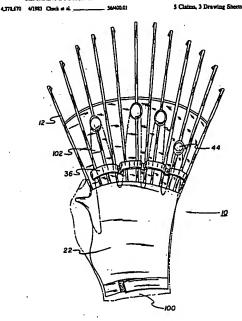
2.120,544 11/1939		_	94/400.01
2,122,500 11/1939			
1 444 113 3/7951	See 1		
130,213 1/1931	-		294/11
THE STATE OF THE S	Die		
2,644,433 7/1953	Besoit		_ 24/348
2,451,279 9/1953	84		794/30 9
777733 4/123	MOTTE		
1,940,230 11/1960	Brech		29449
There in the			384/55
3,104,419 10/1943	E-Fred		
1 700 421	1		. 54/400.12

ABSTRACT



m	Patent	Nun	ber:	

United States Patent [19] Anthes et al.	[11] Patent Number: 5,609,012 [45] Date of Patent: Mar. 11, 1997
[54] RAKING APPARATUS WORN ON A HAND [76] Inventors: Peter S. Anthes, Jeanne Anthes, both of B Gem C., Westerty, R.I. 02391	4,866,972 91989 Clark 56400.04 5,404,644 4/1995 Northern et al 172/378 X Primary Examiner—Texty Les Melins
[21] Aprl. No.: \$19,081 [22] Flact: Sep. 15, 1995 [51] Int. Cu.* [52] U.S. C	[57] ARSTRACT A raking apparatus wom on a based comprised of a phrality of L-baspect rake portions. The plurality of sake portions are complete together by an ercusts support end A pain receiving portion is secured to end portions of the plurality of L-baspect rake portions. A finger receiving portion is secured to the phrality of L-baspect rake portions adjacent to the paint receiving portion.

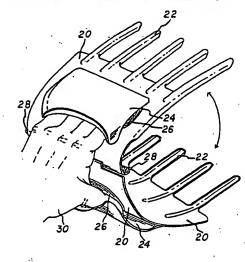


United States Patent [19] [11] Patent Number: [45] Date of Patent: [34] COMBINATION HANDRAKE, SCOOP, GRASPING TOOL AND METHOD OF USE [76] Inventor: Dozald G. Costar, P.O. Box 9905, Reno, Nev. 89507-0905

[21] Appl. No. 177,866 POREIGN PATENT DOCUMENTS References Cited U.S. PATENT DOCUMENTS

343,846 7/1886 Holmes . 567,077 9/1896 Fitzgeral 961,740 8/1910 Case 344,072 6/1941 Ledberts

ABSTRACT A one hand operable grasping tool having extended and crossing times, or raking members, that transform the tool into a small one hand operable rake when in a



US005937627A

United States Patent [19]

McKittrick

[54] GARDENING IMPLEMENT HAVING ENHANCED LEVERAGE [75] Inventor: Janie McKittrick, 4901 Frontenac Ave., Golden Valley, Minn. 55422

[73] Assignes: Jamie McKittrick, Golden Valley, Minn.

[21] Appl. No.: 06/693,345

[22] Filed: Aug. 6, 1996

Related U.S. Application Data

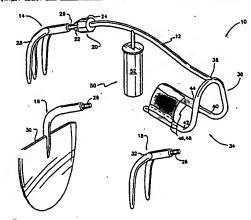
[51] Int. Cl.* _____ [52] U.S. Cl. ____

References Cited U.S. PATENT DOCUMENTS

309,437 12/1884 Calef .
712,943 11/1902 Poul .
2,180,544 1/1939 Nineca 2,710,571 6/1935 Pfisits 1,212,355 2/1966 Woollw 4,477,114 10/1994 Calife

[11] Patent Number: Aug. 17, 1999 [45] Date of Patent:

FOREIGN PATENT DOCUMENTS



United States Patent [19]

4,180,110

Dec. 25, 1979 [45]

[34] HANDSAW WITH SPECIALIZED CUTTING TEXTH

[21] 'Appl No. 915,589

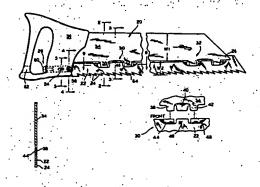
[22] Filed: Jan. 15, 1978

References Cited U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

31613 M/1956 Canda | 143/31 | Imary Examines—Robert L. Spruill intest Examines—Robert L. Spruill intest Examines—J. T. Zatarpa pracy, Apast or Firm—Charles A. Laft J. Warres birtect; Howard B. Rockman

ABSTRACT



United States Patent [19] Nelson

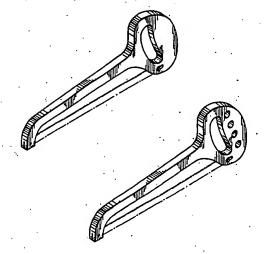
U.S. PATENT DOCUMENTS

[34] HANDSAW FRAME

[21] Appl No. 50,342

D. 237,140 10/1919 Ande L713,944 1/1920 Pena L43,621 4/1920 Joyne L93,912 1/1931 Moon 1,714,034 4/1957 Kroo 4,079,743 1/1971 Riley

[11] Patent Number: Des. 305,296 [45] Date of Patent: .. Jan. 2, 1990



United States Patent [19] Fodor

[54] COMBINATION CROSS AND RIP CUT HANDSAW

[75] Inventor: William G. Fedor; Blairs, Va. [73] Assignce: Sandvik, Inc., Greensboro, N.C.

[21] Appl. No. 131.462

Mar. 18, 1980

[51] Int. CL3 B278 31/00 [52] U.S. Cl. 145/31 R, 31-AC, 31 AD

References Cited

U.S. PATENT DOCUMENTS

1,919,748 7/1913 Roberts 1,741,279 4/1936 Strutton 1,003,475 10/1961 Levience

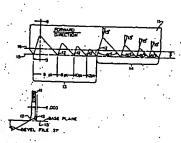
Primary Examiner—Nicholus P. Godici Assistant Examiner—J. T. Zetarga Attorney, Agent, or Firm—B. B. Otive

ABSTRACT

[45]

May 5, 1981





(12) United States Patent

Bachta

ers P. Bechte, McHenry, IL (US)

This patent insued on a continued pros-ecution application filed under 37 CFR 1.53(d), and is subject to the twenty year patent term provisions of 35 U.S.C. 154(a)(2).

Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: 09/375,468

(22) Filed: Aug. 14, 1999

Int. Cl.' ... U.S. Cl. ... Field of Se B26B 3/08 30/353; 30/144; 30/514 30/355, 357, 340, 30/317, 514, 144

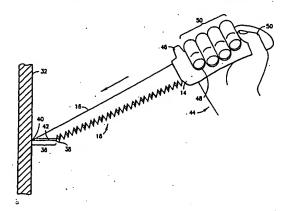
U.S. PATENT DOCUMENTS

1,171,241 A * 2/1916 Poter _

US 6,357,122 B2 *Mar. 19, 2002

cited by exami

(45) Date of Patent:



United States Patent (19) Schlueter et al.

[11] Patent Number: [43] Date of Patent:

Apr. 3, 1990

(34) SWIM AND EXERCISE PADDLE INFROVEMENT [75] Inventors: Nancy J. Schloster, Phoenix; Rosald
L. Johnson, Scottsdale, both of Ariz.

[22] Filed: Nov. 23, 1965

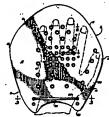
References Cited

U.S. PATENT DOCUMENTS

POREIGN PATENT DOCUMENTS

BSTRACT

Not Round, Not Rigid. No Cut out grip.



Not stable at 120 mph. Not stable in White Water. Silly hole's reduce efficancy

United States Patent (19) Liveoak

[11] Patent Number: [45] Date of Patent:

[54] HAND OPERATED PADDLE

[76] Inventor: Tahmadge W. Liveonk, 501 Bres Dr., Madison, Ala, 35758

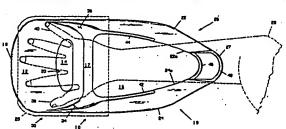
[22] Filed Nec. 20, 1994

Related U.S. Application Data

[63] Continuation in-part of Set. No. 12,294, Aug. 30, 1993, Par. No. Dec. 333,573.

Int. C1. A63B 31/10
U.S. C1. 441/54; 440/101
Pleid of Scarch 440/101; 441/53,
441/54, S8; 416/70 R; D12/215; D21/239

References Ched U.S. PATENT DOCUMENTS 214,455 10/1879 Primbs 2,109,429 -2/1938 Males .



In No longer taking trese Intrade

United States Patent [19]

[11] Patent Number:

(45) Date of Patent:

Apr. 30, 1996

(34) SWIMMER TRAINING PADDLE Rossid I. Johnson 2538 N. 65th St., Scottsdale, Ariz. 85251

[21] Appl. No.: 502,630 [22] Filed: Jul. 14, 1995

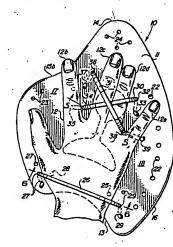
[51] Int. CL⁶ _____ [52] U.S. Cl. ____ [58] Field of Search A63B 31/10 441/58; 441/58 earth 441/58, 56, 57, 441/58, 59, 60, 61, 62, 63, 64; D21/236, 237, 238; 434/254

[56] References Cited U.S. PATENT DOCUMENTS

ABSTRACT

A swimmer's hand paddle in the form of a tigid please member has a mitter-shaped surface area, larger than the human hand now vider lot the polar nest than in the sers of the middle flager, and has an irregularly-shaped spersure of a width approaching the width of the hand positioned as a location on the peddle so as to be covered by the most sexualist area of the palm when the human is properly posi-tioned on the paddle. From one end of a proximal curved row of perforations which closely approaches the same side edge for reducing the resistance to water of it finger side during the routine of a swimming strol stars's hand is annahed to and positioned on the sections of rubber mixing pulled through sets of perfor-tme set positioned new the wrist edge and po-positioned at the approximate location of the base-man for the strong perforance in the section of the base-man for the section of the section of the base-man for the section of the section of the section of the base-man for the section of the section of the section of the base-

14 Claims, 1 Drawing Sheet



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(12) United States Design Patent (10) Patent No.: US D439,299 S Chiang (3) Date of Patent: •• Mar. 20, 2001

(54) SWIMMING OAR .

(76) Inventor: Hertman Chiang, 11-2F, No. 634-9 Ching-Ping Rd., Chang-Ho City Taipei Haira (TW)

14 Years

(21) Appl. No.: 29/124,906 (22) Filed: Jun. 6, 2000

__ D21/807; D21/803

D21/807, 803; 441/35-58, 60-64

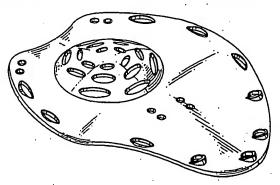
References Cited

U.S. PATENT DOCUMENTS

cominer—Kay H. Chin Examiner—C. Styles ney, Agent, or Firm

CLAIM

1 Claim, 6 Drawing S



United States Patent [19] Rozenblad

[54]	4) MULTIPLE USE EXERCISING DEVICE					
.[76]	laventor:	William L. Res. St., New York,	N.Y.	401 1001	W. 56th	
[21]	Appl No.:	236,830	:	:	. : .	

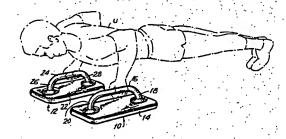
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[21]	Appl No.	236,830	• • • • • • • • • • • • • • • • • • • •
[22]	Filed:	Feb. 23, 1941	 • • ::
[51]	Int. Cl.1 _		 AGIB 21/00
[57]	U.S. CL		 272/93

(58)	Field of Search 272/62, 111, 63, 144, 272/93, 126, 109; 244/363; 15/105.5, 104.94,
(36)	253; 7/167 References Cited
	U.S. PATENT DOCUMENTS

	R	derences	Cited	
υ	S.PAT	ENT DO	CUMENTS.	, .
	•		•	11/2214
			9	
ددن	12/1943	Acade		272/126
1,604	U1965	Hammer		244/363 X
1,701	3/1971	منسية		_ 272/124

1444	1/1977	McCarthy :	272/126 X
1.644.703	\$/1972	Ler	13/235.4
4.044.373	9/1977	Kin	277/8

ABSTRACT-



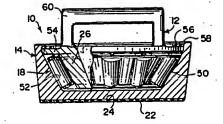
(11)	Patent Number:	5,358,46	
[45]	Date of Patent:	Oct. 25, 199	

54]	EXERCISE	DEVICE	4,513,228 4/1914 Obses 4 4,761,778 9/1918 Thomas Jr 4		
វត្ស	Inventor: Jesus Paestes, 12 South Rd., Central Islip, N.Y. 11722		5,073,144 13/1991 Stenglein		
21]	Appl. No.:	952,595	Primary Examiner—Richard J. Apley Anistant Examiner—Penne M. Mollo		
222	Wiled.	C- 28 1997			

United States Patent [19]

Fuentes.

U.S. PATENT DOCUMENTS



United States Patent 1191

· · · · · ·	94) WEIGHT ASSEMBLY
-	75] Inventor: Scott B. Oisea, Bloomington, Minn.
	[7] Assignce: North American Sports Training
	Corporation, Minneapolis, Minn.
	[1] Appl. No.: 646,901
: 0	22] Filed: Aug. 31, 1984
(51) let Q
	272/143
Į.	[3] Fleid of Search 272/119, 67, 61, 143, 272/116, 122, 96, 122/77, 273/189 A, 54 B

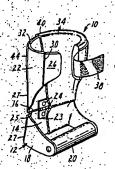
· References	Cited		
S PATENT D	осим	ENTS	٠.

U.S. PATENT DOCUMENTS								
	3,149,839 9/196	4 Materia	272/119 2					
٠	3,970,305 -7/197	4 Hawkins	273/34 1					
	.4,039,183 8/197	7 Sakurada	272/143 X					
•	4,132,407 - 1/197	Devis	273/54 E					
	4.330-120 S/19E	Netti	772/11I					
•		3 Kimera						
	4411.422 10/190	Solloway	: 272/116 X					
	4,521,011 6/191	Solloway	273/110					

1111	A MICHE	· ·		اعتردهد
451.	Date of	Patent:	Anr.	29, 198

POREIGN PATENT DOCUMENTS 509276 1/1939 United Kingdom

ARSTRACT



United States Patent [19]

[54] BOCKEY TRAINING GLOVES WITH ATTACHABLE AND REMOVABLE WEIGHTS

[22] Filed:

(51) Int. CL* (52) U.S. CL (53) Fleid of 2 A41D 3/10; A41D 13/10 2/16; 2/160 Earth 2/16, 159, 160, 2/161.1, 162, 20; 273/57 2; 482/44, 103, 93

[56] References Cited

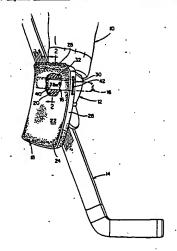
U.S. PATENT DOCUMENTS							
4.034.979	7/1977	Wester	273/5				
4,239,211	12/1980	Williams	 482/10				
4,247,097	1/1981	Schwatz	272/LI				
4,330,120	5/1982	Netti	272/11				
4371.913	2/1963	Plotti, Jr.	2/16				
4314,714	5/1963	Kinara	482/10				
4,396,190	8/1963	Wilkerson	272/11				
4,677,698	7/1987	Angre	2/161.				
4,684,123	8/1987	Pebry	2/16				
	4,239,211 4,247,097 4,330,120 4,371,983 4,384,714 4,396,190 4,677,698	4,034,979 7/1977 4,239,211 12/1980 4,247,097 1/1981 4,330,120 5/1982 4,371,983 2/1983 4,394,190 3/1983 4,974,698 7/1987	4.279.211 12/1940 Williamon 4.247.097 1/1981 Schwattz 4.370.120 3/1942 Netti 4.371.943 2/1943 Photi, is 4.344.714 3/1940 Kimura 4.394.1940 3/1940 Williamon 4.374.818 7/1947 Angus				

5,530,967 [11] Patent Number: [45] Date of Patent:

Jul. 2, 1996

FOREIGN PATENT DOCUMENTS

2051912 3/1993 Cameda .



nited States Patent [19]

Queppet

[54] MARTIAL ARTS TRAINING PAD AND BLOCKING SHIELD

[21] Appl. No.: 329,415

(22) Filed: Oct. 27, 1994

[22] Trace
[31] Int. C.*
[32] U.S. C. 482/81, 434/247, 434/26, 251]
[39] Fleid of Search 494/247, 251;
482/81, 87, 86, 81; 273/55 A, 55 R, 57.3

U.S. PATENT DOCUMENTS

1,044,987 11/1912 Campbell . 2,219,223 4/1941 Gilmen . 2,219,223 4/1941 Gilmen . 2,212,17 10/1902 Gilmen . 3,739,215 9/1977 Creeks . 3,739,215 9/1977 Creeks . 3,749,215 9/1975 D. Sentis . 4,474,401 10/1941 Septin . 4,546,546 10/1941 Septin . 4,551,477 12/1943 Chemist eff 273/35 R

Mar. 26, 1996

OTHER PUBLICATIONS

for blocking/protective equi-zine, Jan. 1979 and Sep. 1969.

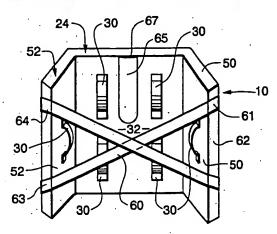
Primary Examiner—Jessica I. Harrison · Assistant Examiner—Michael O'Neill

1111 Patent Number:

[45] Date of Patent:

ABSTRACT

The invention relates to a combination training and and blocking shield for use in marrial are training. The peal and blocking shield is portable and has fromtal and side strike zones which allow an athlete training in marrial arts or spontaneously practice frontal and lateral kicks and punches on the shield while such shield is beld by a partner as well



United States Patent [19]

Abbott

[54] FULL CONTACT MARTIAL ARTS SPARRING INSTRUMENT

[76] Inventor: Dana G. Abbott, 4905 E. Beverly La., Phoenix, Ariz. 85032

[21] Appl. No.: 09/274,543 [22] Filed: Mar. 23, 1999

[51] Lot. Cl." _____ [52] U.S. Cl. ____ [58] Pleid of Search ... F41A 33/00; A63H 33/30 --- 463/47.2: 463/47.7: 482/12

U.S. PATERIT DOCUMENTS

ces Cited

1,986,682 1/1933 Schotz . 4,957,057 9/1990 Marcucci 5,295,926 1/1994 Tanabe .

(11) Patent Number:

[45] Date of Patent:

6,036,602 Mar. 14, 2000

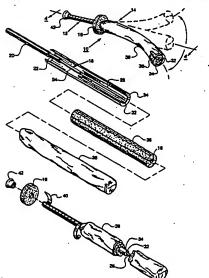
5,324,227 6/1994 Yes-Ching 5,630,996 5/1997 Parsom .

Exeminer—William M. Pierce Agent, or Firm—Frank I. McGo

[57] ABSTRACT

erad by a sheath extending beyond the tip rod. The a covered by a soft, flexible material to its end. The a made of a soft, resilient material whereby the sheath from the end of the soft, flexible material when the trent is bean.

18 Claims, 2 Drawing Sheets



United States Patent [19] [11] Patent Number: Des. 420,413

Gonzalez

[54] MARTIAL ARTS TRAINING DEVICE Richard J. Gonzalez, HC 30, Box 833, 4250 Coyote Guich, Prescott, Ariz. 86301

[**] Term: 14 Years

[21] Appl. No.: 29/101-235

(22) Filed: Mar. 1, 1999

(SI) LOC (7) CL

U.S. PATENT DOCUMENTS

[45] Date of Patent: .. Feb. 8, 2000 5,273,507 12/1993 Sivela 5,613,925 3/1997 Mismeries

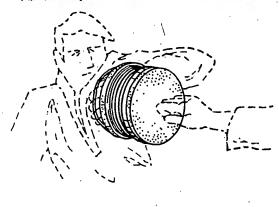
Primary Examiner-Philip S. Hyder Attorney, Agent, or Firm-Richard R. Mybeck

CLAIM

DESCRIPTION

FIG. 1 is an isometric showing of a martial arts derive showing my new design; FIG. 2 is a rear elevation thereof; FIG. 3 is a top view thereof; FIG. 4 is a disk devation thereof, both sides being g the same except that one is the mirror image of the FIG. 5 is a bottom view thereof, of FIG. 5 is a bottom view thereof, of

line portions of the FIG. 1 de



(58) Field of Search _______ 482/83, 88, 84-87; 2/16, 161 R, 2, 69.5; 602/14, 20, 18, 21,

U.S. PATENT DOCUMENTS

(10) Patent No.: US 6,325,747 B1 (45) Date of Patent: "Dec. 4, 2001 (45) Date of Patent:

(54) MARTIAL ARTS TRAINING DEVICE

or: Terry Lee Norblom, St. Louis Park, MN (US)

(12) United States Patent

Norblom

(73) Assignce: Center Ring Martial Arts, L. Chanhamen, MN (US)

Subject to any disclaimer, the te patent is extended or adjusted U.S.C. 154(b) by 0 days.

This patent is subject to a terminal dis-

(21) Appl. No.: 09/416,204

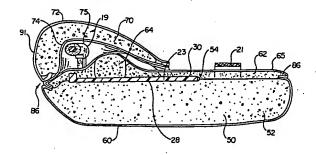
(22) Filed: Oct. 8, 1999

__ A63B 21/02; A41D 13/08 ___ 482/83; 482/88; 482/124

cited by exam

ABSTRACT

10 Claims, 2 Drawing Sheets



(45) Date of Patent: Oct. 21, 1997

[54]	5N	MW	OB	n.E	R S A	VALA	NCE	E SHOV	KL.
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United States Patent 1197

Robinson

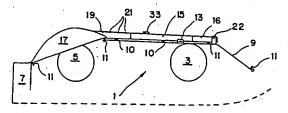
(. 0)	Kearns, Utab 84118
[21]	Appl. No.: 786,468
[22]	Filed: Sep. 3, 1996
	Int. Ct. 5/12
[52]	U.S. Cl 294/51; 294/57; 224/408
[58]	Field of Search 294/49, 51, 54.3.
	294/57, 59; 224/403, 405, 408
1561	References Cited

	294037, 39, 224403,
	References Cited
ıs.	PATENT DOCUMENTS

1,478,204	12/1923	Comey et al.	29451
3,226,149	12/1965	McJohnson	29451
3,980,217	9/1976	Yochen	Z24/535
3.986.574	10/1976	Irvine	234401
4.009.853	3/1977	1.04	224/401
		Delayer	
		Pour	
		Walted	
		Complet	

5,103,520 4/1997 Marzo . 5,533,768 7/1996 Mirchell

H. McCiyos: Thomas Zack ABSTRACT



(12) United States Patent Watts

(10)	Pater	ıt i	No.:	
(45)	Date	of	Pater	1

US 6,446,368 B1 Sep. 10, 2002 ať:

(54)		ITYE INCLINED PLANE EARTH NG TOOL	
(75)	lavestor:	Cleat T Watts, Dallas, TX (US)	
(73)	Assigner:	Cleal Wetts	
(*)	Notice:	Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.	
(21)	Appl. No.	: 09/417,943	
~	77. A.	O- 13 1000	

·—,		,	
(51)	Int. Cl.		E02F 9/28
(52)	U.S. CL	37/-	150; 37/451
		Search 37/444	5, 449, 450,
		37/451, 452, 453, 454, 460; 17	2/753, 749,

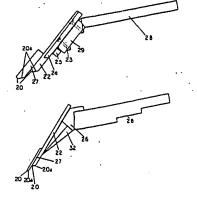
(52)	V.S. CL			37/450	37,451
(58)	Field of	Search		37/446.	149, 450,
		37/451, 45	2, 453, 454,	460: 172/	753, 749,
				7	72.7725

U.S. PATENT DOCUMENTS

2,124,230	A	٠	7/1938	Hosener et al	37/46
2,250,904	A	٠	7/1941	Coffman	37/45
2,251,487	A	•	8/1941	Hosener et al	37/45
2,433,001	•	٠	12/1947	Mort	37/43
2.546.457	A	٠	3/1951	Lamader et al	37/43
3,550,293	Ä			Hetros	
3,648,391				Kebay et al	

4,428,131 A	1/1984	Haha
4,587,751 A	\$/1986	Sjogres et al.
4.716.667 A	1/1988	Martin
4,748,754 A	6/1988	Schwappech
4,753,299 A	* 6/1986	Mayers 172/77
5,016,365 A		Robinson
1.056.243 A	10/1991	Sonrager et al.
5.144,762 A		Robinson .
5.224.282 A		Swid
5,412,885 A		Cornelius
5,566,748 A		Enrich et al.
5,743,033 A		Gegel 37/40
5,782,019 A		Laurader et al

ABSTRACT



[11] Patent Number:

[45] Date of Patent:

United States Patent [19]

[54]	COMPAC	T SNOW DIGGING IMPLEMENT
[75]	lovestor:	Chris St. Jeor, Salt Lake City, Utab
(73)	Assistan	Innerations do loor LLC Salt Lake

(73)	Assignee:	Innovations City, Utab	du Jeac,	uc,	Salt	L

[21] Appl. No.: 09/383,848 [22] Filed:

St Jeor

[63]

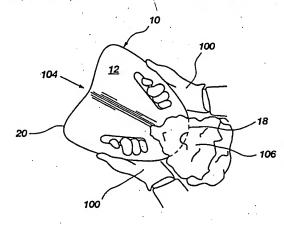
Aug. 26, 1999

1974, 1972 E01H 5/02 U.S. Cl. 294/54.5; 37/285 Fleid of Search 294/31, 1.3, 543, 294/53; 244/93, 37/365, 778, 244, 285; 141/10, 106, 109, 114, 314

[56] U.S. PATENT DOCUMENTS

Sep. 5, 2000

ABSTRACT



(12) United States Patent

Michaud

(10) Patent No.: US 6,464,272 B1 (45) Date of Patent: Oct. 15, 2002

(54) ONE HANDED SHOVEL FOR HANDICAPPED

Subject to any disclaimer, the term of th

patent is extended or adja U.S.C. 154(b) by 0 days. (21) Appl. No.: 09/981,067

(22) Filed: Oct. 18, 2001

(51) Int. Cl.' (52) U.S. Cl. (58) Field of

(56) References Cited U.S. PATENT DOCUMENTS

• 12/1884 Calef • 11/1902 Part _ • 9/1949 Magnin • 7/1990 Welder • 9/1995 Wagne • 12/1995 Francis

FORFIGN PATENT DOCUMENTS

ABSTRACT

1 Claim, 3 Drawing Shoot



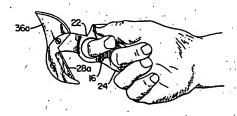
United States Patent 1191

3,839,788

[45] Oct. 8, 1974

[54]	EVISCERATING AND SKINNING KNIFE
[76]	Inventor: Carl J. Addis, 115 Valley Dr., Casper, Wyo. 82601
[22]	Filed: June 19, 1972
[21]	Appl. No.: 264,260
	Related U.S. Application Data
[63]	Continuation-in-part of Ser. No. 159,981, July 1971, abundened.
[52]	U.S. Ci 30/287, 30/1
1511	Int. CL
[58]	
(56)	References Cited

References Ched
UNITED STATES PATENTS



[11] Patent Number: Des. 348,380 [45] Date of Patent: .. Jul. 5, 1994

[54] BLUNT NOSE ENIFE Inventor: Charles Alles, 602 E. 49th St., Austin, Tex. 78751

United States Patent [19]

Allen

[21] Appl. No.: 8,763 Filed: May 23, 1993
U.S. Cl. D7/649
Field of Search D7/649, 642, 645, 650,
D7/652, 664; 30/147-169, 344, 344.35, 344.36 Beforences Cited

U.S. PATENT DOCUMENTS D. 178,433 8/1936 Jorge D. 267,622 1/1983 Ramel

—Alan P. Douglas
—Caron D. Veynar
—Gambrell, Wil

CLAIM

FIG. 1 is a right perspective view of the blust of the present invention; FIG. 2 is a left perspective view of the blust of the present invention; FIG. 3 is a top view of the blust nose knife



United States Patent [19]

Schrock et al.

4,087,911

May 9, 1978

[54] PINGER HOLE ENIFE

[21] Appl No.: 633,850

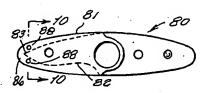
[22] Filed:

[SK] Fleld of Search 30/153, 291, 298, 340 30/289, 288, 284

[56] U.S. PATENT DOCUMENTS

449,031 3/1891 Bernard ... 3,839,788 10/1974 Addis

ARSTRACT



(12) United States Patent

De Luccia

(10) Patent No.: (45) Date of Patent: US 6,378,745 B1

(54) KNIFE HOLSTER FOR A HAND

(76) Inventor: Dominic R. De Luccia, 1842 Colde Ave., Bronz, NY (US) 10462

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjust U.S.C. 154(b) by 0 days.

(21) Appl. No.: 09/663,128

(22) Filed: Sep. 15, 2000

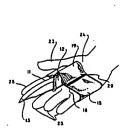
______A45C 11/00 _____224/218; 30/16; 274/232 _______224/218, 219, 224/222, 232; 30/160

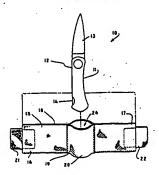
References Cited

U.S. PATENT DOCUMENTS

9/1972 Pushes • 1/1978 Rusch 4/1979 Johnson 11/1983 Sherwin

ABSTRACT





United States Patent 1191

[11] 3,964,697 [45] June 22, 1976

Mays

(54) DEPLOYABLE WING BACK PACK

[75] Inventor: Kittrell W. Mays, Miami, Fla. [73] Assignee: Lawrence Peska Associates, Inc., New York, N.Y.; a part interest

[22] Filed: Apr. 30, 1975

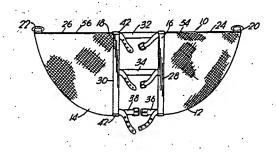
[21] Appl. No.: 573,134

[52] U.S. Cl. 244/64; 244/138 R; 244/143 [51] Int. CL³ B64C 31/04 [58] Field of Search 244/143 R, 142, 151 R

References Cited
UNITED STATES PATENTS 2,067,423 1/1937 Sohn et al. 244/138 R X 2,181,326 11/1939 Griffin 244/138 R X FOREIGN PATENTS OR APPLICATIONS

Primary Examiner—Trygre M. Bits Assistant Examiner—Barry L. Kelmachter Attorney, Agent, or Firm—Jack D. Slobod

[57]



United States Patent [19]

Yamanaka

[11] Patent Number:

[45] Date of Patent:

Nov. 14, 2000

[54] THROWING GOOD FOR USE IN SKY DIVING

[76] Inventor: Atsushi Yamanaka, 4-31-13, Midori-cho, Tokovuzawa-shi, Saitama-Ken, Japan

[21] Appl. No.: 09/260,012

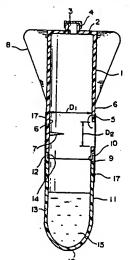
[22] Filed: Mar. 2, 1999

References Cited

U.S. PATENT DOCUMENTS

ABSTRACT

1 Claim, 5 Drawing Sheets



United States Patent [19]

(11) 3,969,772 [45]. July 20, 1976

[54] JUMPING GARMENT FOR A PARACHUTIST [75] Inventor: Marcel Prayas, Clichy, France

[73] Assignoe: Emdes et Fabrications Acressettques, Paris, Fra

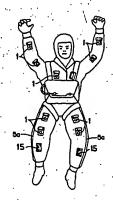
FOREIGN PATENTS OR APPLICATIONS [22] Filed: Dec. 11, 1974 [21] Appl. No.: 531,668 1,155,985 12/1957 France. 523,942 5/1955 Italy

Foreign Application Priority Data Dec. 19, 1973 France ABSTRACT

U.S. C1. 2/79
lat. C1. A41D 13/02
Field of Search 2/DIG. 1, 69, 79, 80, 2/81, 82, 2.1, 227; 244/143, 146, 142 R

[56]

UNITED STATES PATENTS



(12) United States Patent

(10) Patent No.: (45) Date of Patent:

(54) SKY DIVING TRAINING DEVICE

(76) Inventor: Jeffrey S. Mason, 13083 H-DeSoto, MO (US) 63020

(*) Notice: Subject to any disclaimer, the term of this patent is extended or edju-U.S.C. 154(b) by 0 days.

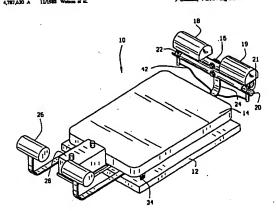
(21) Appl. No.: 09/606,233

(22) Filed: Jun. 28, 2000

(51) Int. CL⁷ ASSB 6W18 (52) U.S. CL 64/25: 154/27; 434/25; (725) 48/25; 45/27; 434/25; (58) Field of Search 44/27, 232, 23; 47/26; 133; 46/360, 372, 431, 232, 23; 47/26; 135; 46/376; 273/440, 454; 482/140, 147, 31

References Cited

U.S. PATENT DOCUMENTS



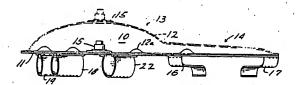
United States Patent

1111 3,581,740

1721	Inventor	Robert D. Sherbourne
		Findley, Ohio,
1211-	Appl. No.	834:530
1221	Filed -	Sept. 2, 1949
1451	Patented	June 1, 1971
	Aujorie 2	"R.L. Kess & Co., Inc.
		Finding, Ohio
		7 may, Ozen

ventor	Robert D. Sherbourne Findley, Chie,	: .	[56]	References Clied	
ppi. No.	834:130			UNITED STATES PATENTS	2
led -	Sept. 2, 1949		. 2.880,721	4/1959 Corcoran	123/2601
tented	June 1, 1971			FOREIGN PATENTS	
milines	R.L. Kuss & Co., Inc. Finding, Ohio		715,700	6/1966 Canada	128/
	, —, ,	·	Primary Fa	aminer—L. W. Trapp Owen & Owen	
				Over E Owen	4

1341	INFLATABLE DEVICE FOR ARTHRITIC	
	13 Chins, 6 Drawing Figs.	
[52]	U.S. CL	128/77,
[31]	Im. CL.	128/87A A61/5/10
	137 133 22 44442	128/20,87,



United States Patent [19] Hollerbach

1541	PROM	EXERCISE	DEVICE	FOR	OPPOSING

[54]	PROM EXERCISE DEVICE FOR OPPOSING CONTRACTURE

	CONTRA	CTURE		
[76]	Inventor:	Thomas R. Hollerbech, 2716 Stevens		

		55408	minnespons, m	400.
(21)	Appl No.:	229,335		

[22]	Filed:	Ang. 5, 1988	
[51]	let CL4		A61H 7/0
[52]	U.S. CL.		121/64; 121/44
			128/DIG. 20
[42]	Field of S	Correb	121/64, 65, DIG. 20

[52]	U.S. Cl. 128/01G.	:
(58)	Field of Search 128/64, 65, DIG. 2 128/24 R, DIG. 10, 160, 26, 157, 381, 165,	Ю,
1461	· Defenses Cited	

υ	U.S. PATENT DOCUMENTS		
2,880,721	4/1959	Corcores	
3,242,923	1/1964	Jacoby 121/DIG. 2	
3414.513	12/1968	Sagrech et al	
		Clark et al 128/7	
3 403 000	1000	D. Mars. 1787	

1.990.440	11/1976	Gaylord 128/16
4.153.050	1/1979	Bishop
4,774,199	V1981	Museument 126/2
4.300,779	11/1981	Capita 128/DIG. 2
4349,042	7/1982	Smith 128/DIG. 2
4,596,140	6/1916	Takaheshi
4,614,179	9/1984	Gardner 128/6
4,619,230	10/1986	Haregown
4,671,251	6/1987	Barthlome 121/2

[45] Date of Patent: Mar. 13, 1990

4,907,574

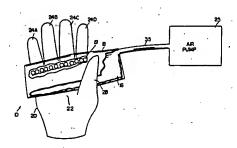
POREIGN PATENT DOCUMENTS 735700 6/1966 Canada

ner-Edgar S. Burr Jaer-Huong Q. Pham

[11] Patent Number:

ABSTRACT

of motion (PROM) device muscles of patients suffering A passive rause nipulates hand muscles tracture. The PROM de-



United States Patent [19]

Winter

1111 3,942,194

[45] Mar. 9, 1976

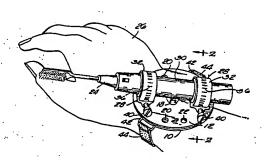
[54] PROSTHETIC DEVICE FOR HANDICAPPED PERSONS

- [76] Inventor: Sybil Betty Anna Winter, 10124 W. Capitol Drive, Milwaukee, Wis. 53222
- 1221 Filed: Aug. 30, 1974
- [21] Appl. No.: 501,950

[56] References Card
UNITED STATES PATENTS 6/1939 Nelson

Two stiff dies are rotatably attached together in to-face contact, one of the discs having a ring of on ings therein, and the other disc having a ringle; tioned to engage and latch in the openings. An inment holder is attached to one of the discs and a statached to the other disc for strapping the two and implement holder to a person's hand. By ross the disc areases the implement budder with present the contraction of the discs are not and implement holder to a person's hand. By ross the disc areases the implement budder with present

7 Claims, 5 Drawing Figures



United States Patent [19]

Farquharson et al.

III Patent Number: [45] Date of Patent:

5,464,444 Nov. 7, 1995

[54] ATTACHMENT FOR ARTIFICIAL ARM PROSTHETIC DEVICE

[76] Inventors: Remald H. Farquharson, Rie. 3, Box 3466 CR 623, Brazoria, Tez. 77422; Danny P. Still, Rie. 3, Box 5, Anglosos, Tez. 77515

[21] Appl. No.: 216,624 (22) Filed: Mar. 23, 1994 [51] Int. CL* A61F 2/54; B25J 17/00 [52] U.S. Cl. 623/65; 623/61; 623/62; 901/28; 901/29

901/28, 29; 74/89.14

References Clied U.S. PATENT DOCUMENTS

1,206,753	11/1916	Despore67
1,213,222	1/1917	McKey 67
1,278,106	9/1916	Carson
1,299,543	4/1919	Bowler 67
1,310,589	7/1919	Treatmen67
1,692,073	1/1928	Brezzer 74/8
2,561,523	7/1948	La67
2.566.375	7/1950	Rocklin 67
3,036,312	2/1960	Leron et al
3,490,078	4/1970	Perez
3,747,128	7/1973	DeFilipo 67
3,802,302	11/1974	Bengston 81/
1947.194	3/1976	Mater .
4.357,717		Publ 62
4,661,313	4/1987	Adda
4,944,765	7/1990	Keith 67
3,163,966	11/1992	Nonce et al. 621

FOREIGN PATENT DOCUMENTS

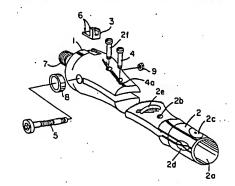
, 0484160	9/1917	Propos	623/65
0306713	7/1918	Cormety	623/61
0323435	7/1920	Germany	623/65
0845095	7/1952	Germany	623/65
0100582	W1923	Switzerland	623/65
	OTHE	R PUBLICATIONS	

High Tech for the Handicapped pp. 78-79 (1991) by Larry Keuelkamp, Enslow Publishers, Inc. N.J.

· · ABSTRACT

Arminal device is described which is standable to the end of a prosubcisi on an arm and there serves as an attachment the for a windry of uso for implements designed to make with the terminal device. The terminal device comprises of the main part is openhele and pivale correlations with its accord unais part, the combined units parts previding on one of a device for attaching to the cod of us arm prosthesis, and on the other a device for standard parts previded and the other and the othe ety of other implements such as epoces, lanes, brushes, fishing rods, and stirring o

12 Claims, 11 Drawing Sheet



United States Patent [19]

4,324,018 nn Apr. 13, 1982

[54]	PAINT EQUIPMENT CLEANING TOOL		
[76]	laventor:	Sves O. Olsson, 7951 Chicago Ave. South, Minneapolis, Minn. 55420	

[76]	laventor:	Sves O. Obson, 7951 Chicago Ave. South, Minneapolis, Minn. 55420
[11]	Appl No.	141,065
[22]	Filed:	Apr. 17, 1980

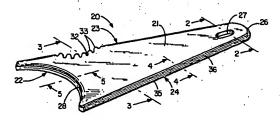
,		4	
[51]	Int. CL3		BHAD 3/00
152	U.S. CL	15/2	36 R: 13/104.04;
• •			13/105; 15/245
[58]	Field of Sear	d 15/25	7 R. 236 R. 105,
		15/111,	104.04, 245, 401

are.	Desco Cita	
S. PAT	ENT DOCUMENTS .	
	Crossnes D7.	

	3,019,467 3,373,456 3,707,740	3/1968	Dalton .		1	5/236 R	X
*	imary Exam	niner-C	abris K. I	Moore	٠		

cator cleaning tool for ch as a paint roller, pai

17 Claims, 13 Drawing Figures



United States Patent 1191

[76] Laventor: Sherman L. Weiss. 11360 She Way, Sun Valley, Calif. 91352

References Clied U.S. PATENT DOCUMENTS

[""] Term: 14 Years

[22] Filed: Jan. 13, 1996

[21] Appl. No.: 55,782

(56)

(iii) Patent Number: Des. 386,372

Weiss [45] Date of Patent: **Nov. 18, 1997 [54] TOOL

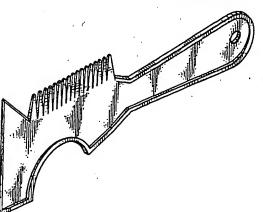
D8/14; D28/25; D32/42; D32/49 D8/14, 19, 45, D32/35, 42, 46, 49; 7/105,

3/1994 United Kingdo OTHER PUBLICATIONS

Allway Tools Inc Catalog, 1995, p. 10, DS13 Bucket Dis-countle Putty Knife.

[37] CLAIM

DESCRIPTION



United States Patent [19] Casab

[34] ERGONOMIC PUTTY ENTRE

[ii] Patent Number: Des. 312,379 [45] Date of Patent: .. Nov. 27, 1990

Buffalo/Novocol/Laclede, Cat. #109, publ. 1986, p. 51. Henry Scheia, Inc., Fall '86-Winter '87 Cat., p. 184. Spencer Mend Dental, Inc., Winter '85-'86 Cat., p. 181.

[76] Inventor: Salvador S. M. Casab, Xo #718, Mexico D.F., Mexi

14 Years

[21] Appl No.: 922,134

Filed: Oct. 21, 1986
U.S. C. _______ D8/98; D8/107
Field of Search _______ D8/98-100,
D8/107; D22/118; D7/130, 151; 30/14, 315,
317, 162, 329, 85, 337

U.S. PATENT DOCUMENTS

OTHER PUBLICATIONS i-Tool, Inc. Cat #16, @1970, p. 81. Sp

Sesign for ergono a and described. DESCRIPTION



US005956799A

United States Patent [19]

Panaccione et al.

[45] Date of Patent:

Sep. 28, 1999

(54) PUTTY KNIFE AND SCRAPER HANDLE

rs: Mark Thomas Panaccione, 12932 SW. Bradley La, Tigard, Oreg. 97224; Donald Paul Cummings, 19 Old Village Rd., Smrbridge, Mesa. 01566

[21] Appl. No.: 98/926,758

[22] Filed: Sep. 10, 1997

[56]

U.S. PATENT DOCUMENTS

OTHER PUBLICATIONS from Feb. 1997 Industrial P ABSTRACT

[11] Patent Number:

20 Claims, 14 Drawing Sheet

